

WHAT IS CLAIMED IS:

1 1. A method for generating a combined graphical
2 information and time-lapse photography presentation, comprising:
3 (a) providing a time-lapse photography video image
4 sequence;
5 (b) generating a dynamic graphical information
6 presentation; and
7 (c) combining the dynamic graphical information
8 presentation with the time-lapse photography video image sequence to
9 form a combined graphical information and time-lapse photography
10 presentation in which both the time lapse video image sequence and the
11 dynamic graphical information presentation change dynamically when the
12 combined graphical information and time lapse photography presentation
13 is played.

1 2. The method of Claim 1 comprising additionally the
2 step of time synchronizing the time-lapse photography video image
3 sequence and the dynamic graphical information presentation.

1 3. The method of Claim 2 wherein the step of time
2 synchronizing the time-lapse photography video image sequence and the
3 dynamic graphical information presentation includes the step of time
4 synchronizing the time-lapse photography video image sequence and the
5 dynamic graphical information presentation such that the perceived speed
6 of both the time-lapse photography video image sequence and of the
7 dynamic graphical information presentation accelerates at a beginning of
8 the combined graphical information and time-lapse photography
9 presentation and decelerates at an end of the combined graphical
10 information and time-lapse photography presentation at the same rate.

1 4. The method of Claim 1 comprising additionally the
2 step of combining a time-lapse clock display with the combined graphical
3 information and time-lapse photography presentation.

1 5. The method of Claim 4 wherein the step of generating
2 the dynamic graphical information presentation includes the step of
3 generating the time-lapse clock display.

1 6. The method of Claim 1 wherein the step of providing a
2 time-lapse video image sequence includes the step of obtaining a time-
3 lapse video image of sky conditions over a selected time period,
4 comprising additionally the step of recording weather information over the
5 selected time period, and wherein the step of generating the dynamic
6 graphical information presentation includes the step of generating a
7 dynamic graphical weather information presentation from the recorded
8 weather information.

1 7. The method of Claim 6 wherein the step of obtaining a
2 time-lapse video image of sky conditions and the step of recording
3 weather information are performed in a time synchronized manner.

1 8. The method of Claim 6 wherein the step of recording
2 weather information over the selected time period includes the step of
3 recording weather information selected from the group of types of
4 weather information consisting of: type of precipitation, quantity of
5 precipitation, temperature, wind speed, and wind direction.

1 9. The method of Claim 1 wherein the step of providing a
2 time-lapse photography video image sequence includes the step of
3 selecting a video image sequence from a plurality of stored video image
4 sequences.

1 10. The method of Claim 9 comprising additionally the
2 step of obtaining weather condition forecast information, wherein the step
3 of generating a dynamic graphical information presentation includes the
4 step of generating a dynamic graphical weather information presentation
5 from the weather condition forecast information, and wherein the step of
6 providing a time-lapse photography video image sequence includes the
7 step of selecting a video image sequence of sky conditions corresponding
8 to the weather condition forecast information from a plurality of stored
9 video image sequences of a variety of sky conditions.

1 11. A system for generating a combined graphical
2 information and time-lapse photography presentation, comprising:
3 (a) means for obtaining a time-lapse photography video
4 image sequence;
5 (b) means for generating a dynamic graphical information
6 presentation; and
7 (c) means for combining the dynamic graphical
8 information presentation with the time-lapse photography video image
9 sequence to form a combined graphical information and time-lapse
10 photography presentation in which both the time lapse video image
11 sequence and the dynamic graphical information presentation change
12 dynamically when the combined graphical information and time lapse
13 photography presentation is played.

1 12. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11
3 comprising additionally means for time synchronizing the time-lapse
4 photography video image sequence and the dynamic graphical information
5 presentation.

1 13. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11
3 comprising additionally means for combining a time-lapse clock display
4 with the combined graphical information and time-lapse photography
5 presentation.

1 14. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11 wherein
3 the means for obtaining a time-lapse video image sequence includes a
4 computer processor controlled video camera.

1 15. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11
3 comprising additionally means for recording weather information over a
4 selected time period, and wherein the means for generating the dynamic
5 graphical information presentation includes means for generating a
6 dynamic graphical weather information presentation from the recorded
7 weather information.

1 16. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 15 wherein
3 the means for recording weather information over the selected time period
4 includes an automated weather station for gathering automatically the
5 weather information.

1 17. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11 wherein
3 the means for obtaining a time-lapse photography video image sequence
4 includes means for selecting a video image sequence from a plurality of
5 stored video image sequences.

1 18. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11
3 comprising additionally means for obtaining weather condition forecast
4 information, wherein the means for generating a dynamic graphical
5 information presentation includes means for generating a dynamic
6 graphical weather information presentation from the weather condition
7 forecast information, and wherein the means for obtaining a time-lapse
8 photography video image sequence includes means for selecting a video
9 image sequence of sky conditions corresponding to the weather condition
10 forecast information from a plurality of stored video image sequences of a
11 variety of sky conditions.

1 19. The system for generating a combined graphical
2 information and time-lapse photography presentation of Claim 11 wherein
3 the means for generating a dynamic graphical information presentation
4 and the means for combining the dynamic graphical information
5 presentation with the time-lapse photography video image sequence to
6 form a combined graphical information and time-lapse photography
7 presentation include a computer processor system.

1 20. A method for generating a combined dynamic
2 graphical information and video sequence weather forecast presentation,
3 comprising the steps of:
4 (a) obtaining weather condition forecast information;
5 (b) generating a dynamic graphical information
6 presentation from the weather condition forecast information;
7 (c) obtaining a video image sequence of sky conditions
8 corresponding to the weather condition forecast information; and
9 (d) combining the dynamic graphical information
10 presentation and the video image sequence to form a combined dynamic

11 graphical information and video sequence weather forecast presentation in
12 which both the video image sequence and the dynamic graphical
13 information presentation change dynamically when the combined
14 graphical information and video presentation is played.

1 21. The method of Claim 20 wherein the step of obtaining
2 the weather condition forecast information includes the step of running a
3 weather forecasting computer model.

1 22. The method of Claim 20 wherein the step of obtaining
2 a video image sequence includes the step of selecting a video image
3 sequence of sky conditions corresponding to the weather condition
4 forecast information from a plurality of stored video image sequences of a
5 variety of sky conditions.

1 23. The method of Claim 22 wherein the step of selecting
2 a video image sequence of sky conditions corresponding to the weather
3 condition forecast information from a plurality of stored video image
4 sequences of a variety of sky conditions is performed automatically.

1 24. The method of Claim 20 wherein the step of obtaining
2 a video image sequence includes the step of obtaining a time-lapse
3 photography video image sequence of sky conditions corresponding to the
4 weather condition forecast information.

1 25. A system for generating a combined dynamic graphical
2 information and video sequence weather forecast presentation,
3 comprising:

4 (a) means for obtaining weather condition forecast
5 information;

6 (b) means for generating a dynamic graphical information
7 presentation from the weather condition forecast information;

8 (c) means for obtaining a video image sequence of sky
9 conditions corresponding to the weather condition forecast information;
10 and

11 (d) means for combining the dynamic graphical
12 information presentation and the video image sequence to form a
13 combined dynamic graphical information and video sequence weather
14 forecast presentation in which both the video image sequence and the
15 dynamic graphical information presentation change dynamically when the
16 combined graphical information and video presentation is played.

1 26. The system for generating a combined dynamic
2 graphical information and video sequence weather forecast presentation
3 of Claim 25 wherein the means for obtaining weather condition forecast
4 information includes a weather forecasting computer model.

1 27. The system for generating a combined dynamic
2 graphical information and video sequence weather forecast presentation
3 of Claim 25 wherein the means for obtaining a video image sequence
4 includes means for selecting a video image sequence of sky conditions
5 corresponding to the weather condition forecast information from a
6 plurality of stored video image sequences of a variety of sky conditions.

1 28. The system for generating a combined dynamic
2 graphical information and video sequence weather forecast presentation
3 of Claim 25 wherein the means for obtaining a video image sequence
4 includes the step of obtaining a time-lapse photography video image
5 sequence of sky conditions corresponding to the weather condition
6 forecast information.

1 29. The system for generating a combined dynamic
2 graphical information and video sequence weather forecast presentation
3 of Claim 25 wherein the means for generating a dynamic graphical
4 information presentation from the weather condition forecast information
5 and the means for combining the dynamic graphical information
6 presentation and the video image sequence to form a combined dynamic
7 graphical information and video sequence weather forecast presentation
8 include a computer processor system.